

*CLAIM AMENDMENTS*

1. (Currently Amended) An inspection apparatus for inspecting a target object based on the basis of a content of a fluorescent component included in the target object, the inspection apparatus comprising:

- conveying means for conveying the target object along a conveyance path;
- a light-emitting device for emitting light toward the target object conveyed by the conveying means;
- ~~a light-receiving light-detecting device for receiving detecting~~ fluorescence emitted from the target object ~~as~~ when irradiated with the light; and
- a fluorescent member disposed on the conveyance path ~~and adapted to generate for generating~~ fluorescence ~~against~~ in response to light emitted from the light-emitting device.

2. (Currently Amended) The inspection apparatus according to claim 1, further comprising controlling means for, before the target object conveyed by the conveying means arrives at an inspection area of the conveyance path, receiving an output signal from the ~~light-receiving light-detecting~~ device to detect a quantity of the fluorescence generated from the fluorescent member, and for controlling a quantity of the light from the light-emitting device based on the basis of the quantity of the fluorescence generated ~~from~~ by the fluorescent member.

3. (Original) The inspection apparatus according to claim 1, wherein the fluorescent member is a fluorescence glass.

4. (Original) The inspection apparatus according to claim 2, wherein the fluorescent member is a fluorescence glass.

5. (Currently Amended) The inspection apparatus according to claim 1, further comprising:

- a light-detecting portion for outputting a signal depending on a quantity of the fluorescence ~~amount received~~ detected by the ~~light-receiving light-detecting~~ device;
- light source control means ~~to control a~~ for controlling quantity of light emitting ~~amount emitted~~ from the light-emitting device for changing, in an analog manner, to a pre-determined quantity selected by the control means for controlling the quantity of the light emitted;

arithmetic means for calculating ~~the~~ changing fluorescence quantity; and  
decision means for deciding ~~a~~ type of the target object based on the basis of the  
changing ~~quantity of~~ fluorescence quantity.

6. (Currently Amended) The inspection apparatus according to claim 5, wherein the  
arithmetic means ~~calculating~~ calculates the changing ~~quantity of~~ fluorescence quantity from  
~~the changing amount-quantity of the illumination from~~ by the light-emitting device by second  
order differentiating output data from the ~~light-receiving~~ light-detecting portion.

7. (Currently Amended) The inspection apparatus according to claim 5, wherein the  
decision means ~~deciding a~~ decides type of the target object based on the basis of a  
comparison between a pre-determined quantity and the changing quantity of the fluorescent  
fluorescence quantity.

8. (Currently Amended) An inspection method for inspecting a target object based on  
~~the basis of a~~ content of a fluorescent component included in the target object, the inspection  
method comprising ~~steps of~~:

- detecting a start signal;
- calibrating ~~a quantity of light amount~~ emitted from a light-emitting device;
- deciding ~~a~~ type of the target object based on the basis of a fluorescent quantity  
fluorescence emitted from the target object illuminated by the light emitted by the light-  
emitting device; and
- continuing ~~the step of~~ deciding ~~a~~ the type of the target object until a stop signal is  
detected.

9. (Currently Amended) The inspection method according to claim 8, ~~the step of~~  
wherein calibrating the quantity of light amount emitted from the light-emitting device  
~~having steps of~~ includes:

- outputting an initial control signal to the ~~light-emitting~~ light-emitting device;
- detecting ~~a fluorescent quantity from~~ fluorescence with a light-receiving light-  
detecting device while a an illuminating member is illuminated by the light-emitted by light-  
emitting device;
- deciding an illumination quantity for the ~~light-emitting~~ light-emitting device by  
comparing ~~between a pre-determined fluorescent quantity~~ fluorescence and the ~~detected~~  
~~fluorescent quantity to the~~ fluorescence detected until difference between ~~these values~~

~~becoming equals to~~ the pre-determined fluorescence and the fluorescence detected becomes  
zero; and

outputting the illumination quantity as a corrected control signal.

10. (Currently Amended) The inspection method according to claim 8, ~~the step of~~  
wherein deciding a the type of the target object having steps of includes:

changing the control signal, based on the corrected signal, in a analog rule manner;

calculating a second order differential of changing output from the ~~light-receiving~~  
light-detecting device; and

determining ~~a the~~ the type of the target object by comparing the second order value  
differential and a pre-determined threshold value.